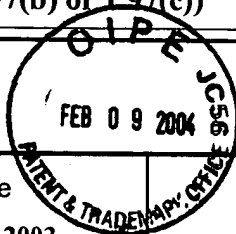


**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
APAC-515

In Re Application Of: DuWain K. Ake



Serial No.  
10/695,673

Filing Date  
October 29, 2003

Examiner  
\_\_\_\_\_

Group Art Unit  
3662

Title: **MODULATED LASER LIGHT DETECTOR**

Address to:  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**

(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.

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3662

**MODULATED LASER LIGHT DETECTOR****Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☐ The Director is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below.
- ☐ Charge the amount of \_\_\_\_\_
- ☐ Credit any overpayment.
- ☐ Charge any additional fee required.

**Certificate of Transmission by Facsimile\***

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F:

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

**Certificate of Mailing by First Class Mail**

I certify that this document and fee is being deposited on February 4, 2004 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Signature of Person Mailing Correspondence

Antoinette B. Clark

Typed or Printed Name of Person Mailing Certificate

\*This certificate may only be used if paying by deposit account.

  
Signature

Dated: February 4, 2004

Frederick H. Gribbell

FREDERICK H. GRIBBELL, LLC

10250 Alliance Road, Suite 120

Cincinnati, Ohio 45242

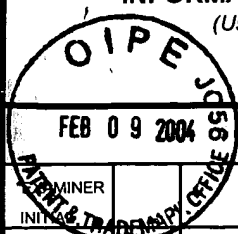
(513) 891-2100

PTO Registration No. 33,892

CC:

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



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DuWain K. Ake

FILING

October 29, 2003

GROUP

3662

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3,017,046	1/16/62	Runci et al.			
AB	3,469,919	9/30/69	Zellner			
AC	3,708,232	1/2/73	Walsh			
AD	3,727,332	4/17/73	Zimmer			
AE	3,790,277	2/5/74	Hogan			
AF	3,813,171	5/28/74	Teach et al.			
AG	3,887,012	6/3/75	Scholl et al.			
AH	3,894,230	7/8/75	Rorden et al.			
AI	3,900,073	8/19/75	Crum			
AJ	3,997,071	12/14/76	Teach			
AK	4,029,415	6/14/77	Johnson			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
BA	2 101 077 A	1/12/83	United Kingdom				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	"360 degree Machine Guidance" and "Depthmaster" sales literature, by Laser Alignment, Inc. (exact date unknown, but known to be before June 12, 1989).
CB	"Laserplane Grade-Eye" sales literature, by Spectra-Physics (October 8, 1988).

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	4,034,490	7/12/77	Teach			
AM	4,040,738	8/9/77	Wagner			
AN	4,050,171	9/27/77	Teach			
AO	4,129,224	12/12/78	Teach			
AP	4,162,708	7/31/79	Johnson			
AQ	4,231,700	11/4/80	Studebaker			
AR	4,273,196	6/16/81	Etsusaki et al.			
AS	4,393,606	7/19/83	Warnecke			
AT	4,413,684	11/8/83	Duncklee			
AU	4,477,168	10/16/84	Hosoe			
AV	4,491,927	1/1/85	Bachmann et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	"Laser Control-Receiver LRE-180/360" sales literature, by MOBA Electronic (exact date unknown, but known to be before June 12, 1989).
CD	"What is a Lock-in Amplifier?" Technical Note TN 1000, by PerkinElmer Instruments (2000).

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## **U.S. PATENT DOCUMENTS**

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	4,535,699	8/20/85	Buhler			
AX	4,604,025	8/5/86	Hammoud			
AY	4,674,870	6/23/87	Cain et al.			
AZ	4,676,634	6/30/87	Petersen			
AAA	4,726,682	2/23/88	Harms et al.			
AAB	4,732,471	3/22/88	Cain et al.			
AAC	4,756,617	7/12/88	Cain et al.			
AAD	4,829,418	5/9/89	Nielsen et al.			
AAE	4,884,939	12/5/89	Nielsen			
AAF	4,907,874	3/13/90	Ake			
AAG	4,912,643	3/27/90	Beirxe			

## **FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## **OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

CE	"Application Note #3 About Lock-In Amplifiers," by PerkinElmer Instruments.
CF	"The Analog Lock-in Amplifier," Technical Note TN 1002, by PerkinElmer Instruments (2000).

EXAMINER

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EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AAH	4,976,538	12/11/90	Ake			
AAI	5,174,385	12/29/92	Shinbo et al.			
AAJ	5,343,033	8/30/94	Cain			
AAK	5,471,049	11/28/95	Cain			
AAL	5,486,690	1/23/96	Ake			
AAM	5,528,498	6/18/96	Scholl			
AAN	5,682,311	10/28/97	Clark			
AAO	5,848,485	12/15/98	Anderson et al.			
AAP	5,854,988	12/29/98	Davidson et al.			
AAQ	5,886,776	3/23/99	Yost et al.			
AAR	5,925,085	7/20/99	Kleimenhagen et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

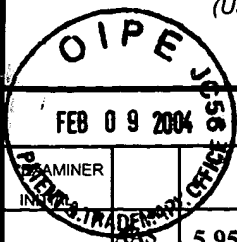
CG	"What Is a Lock-In Amplifier?" by Boston Electronics Corporation.
CH	"A Lock-in Amplifier Primer," by Princeton Applied Research (1975).

EXAMINER	DATE CONSIDERED
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AS	5,950,141	9/7/99	Yamamoto et al.			
AAT	5,960,378	9/28/99	Watanabe et al.			
AAU	6,133,991	10/17/00	Ake			
AAV	6,263,595	7/24/01	Ake			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CI	"Explore the Lock-In Amplifier," by EG&G Princeton Applied Research, Scientific Instrument Group (1983).

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